



GE-NR1820/AI-FN

8HDD,20CH, AI

Pro series



KEY FEATURES

- Up to 20-ch IP camera access
- Simultaneous HDMI1 and VGA1 outputs;
- Incoming/Outgoing bandwidth: 256Mbps/256Mbps
- S+265, H.265, S+264, H.264 video formats
- Max. decoding capability: 16MP (30fps) ×3 or 1080P(30fps) ×20
- 16-ch Synchronous playback
- Up to 24 TB capacity for each HDD
- Simultaneous HDMI2 and VGA2 outputs
- HDMI output at up to 4K resolution
- 2×RJ-45, 10/100/1000 Mbps Self-adaptive Ethernet port
- S+ 265 compression effectively reduces the Storage Space by up to 75%
- Support cloud upgrade



SPECIFICATIONS

Intelligent Analytics	
AI by Camera	Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Loiter; Running; Parking; Heatmap; Video Abnormal; Audio Abnormal; License Plate Recognition; On Duty Detection; Crowd Detection; Parking Guard; Safety Helmet Detection; Electric Bicycle Detection; People Counting; Link to Tracking; Smoke and Fire Detection; Environmental Temperature Measurement; Face Detection; Human Body Temperature Measurement; Smart Motion; Face Recognition; Human/Vehicle classification
VCA Search	Heatmap; Early-warning Search; Behavior Search; License Plate Search; Safety Helmet Search; Thermographic Retrieval; Duty Search; Electric Bicycle Retrieval; Face Search
AI by NVR	Face Detection; Face Recognition
Storage	
HDD Capacity	Up to 24 TB capacity for each HDD
Disk Group	8 Disk Group
RAID	JBOD, RAID0, RAID1, RAID5, RAID6, RAID10, RAID50, RAID60 (To enable RAID, please use surveillancegrade AI disks or enterprise-class disks.)
Record Playback	
Multi-channel Playback	16
Record Mode	Manual Recording; Alarm Recording; Schedule Recording
Storage Method	Local HDD, eSATA
Backup	USB storage device, eSATA, Network
Playback Function	Play/Pause/Stop/Slow/Speed/Backwards 30s/Forwards 30s/Full Screen/Backup (Video Editing)/Step/ Digital Zoom
Dual Stream Record	Yes
Video and Audio	
Access Channel	20
Incoming Bandwidth	256Mbps
Outgoing Bandwidth	256Mbps
Resolution	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Preview Decoding Capability	16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×7, 6MP(30fps)×9, 5MP(30fps)×11, 4MP(30fps)×14, 3MP(30fps)×18, 1080P(30fps)×20, 720P(30fps)×20
Playback Decoding Capability	16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×6, 6MP(30fps)×8, 5MP(30fps)×9, 4MP(30fps)×12, 3MP(30fps)×16, 1080P(30fps)×16, 720P(30fps)×16
Third-party Camera Access	ONVIF; RTSP
HDMI Output	HDMI: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz), 2560×1440(30Hz/60Hz), 2560×1600(60Hz), (4K)3840×2160(30Hz/60Hz)
VGA Output	VGA: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz)
Multi-screen Display	Independent Output: HDMI1/VGA1: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25 HDMI2/VGA2: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25
Audio Input	1-ch, 3.5mm
Audio Output	1-ch, 3.5mm; BNC
Two-Way Audio	1-ch, 3.5mm, using the audio input



Compression	
Video Compression	S+265; H.265; S+264; H.264
Audio Compression	G711A; G711U; AAC; ADPCM_DIV4
Stream Type	Video; Video & Audio
Face Recognition	
Face Picture Library	Up to 32 face libraries, up to 100000 base images Up to 100000 face pictures in stranger library
Face Picture Comparison	Face Picture Comparison
Performance	8-ch video streams; 16-ch image streams
Comparison Speed (Captured from Camera)	16 pictures per second
Comparison Speed (Captured from NVR)	8 pictures per second
External Port	
USB	2×USB2.0; 1×USB3.0
eSATA	1×eSATA
HDMI	2×HDMI (supports up to 4K resolution output)
VGA	2×VGA
Network Interface	2×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port
SATA	8×SATA interface
Alarm I/O	16-ch, TTL inputs, 3mA, 3.3VDC; 8-ch, relay outputs, 1A, 24VDC
RS232	1×RS232
RS485	2×RS485
Controllable 12V	Controllable 12V DC, 1A power output for external alarm device; The power will be turned on when the alarm output is triggered.
Network	
Protocols	ARP; DDNS; DHCP; DNS; Easy DDNS; FTP; HTTP; HTTPS; ICMP; IGMP; IPv4; IPv6; Multicast; NFS; NTP; PPPoE; RTCP; RTP; RTSP; SMB/CIFS; SMTP; SNMP v1; SRTP; SSH; SSL; TLSv1.2; TCP/IP; UDP; Unicast; UPnP
System Compatibility	ONVIF (profile T/S); RTSP; CGI; SDK
Client	Golden Eye VMS
Web	IE10+; Firefox52+; Edge89+; Safari11+; Chrome57+
Alarm	
General Alarm	Motion Detection; Mask Alarm; Alarm Input(IPC); Alarm Input(NVR); Manual Alarm
Exceptions Alarm	Video Loss; IP Conflict; MAC Conflict; Network Disconnected; No Disk; Illegal Access; Disk group space alert; Disk Full; Disk R/W Error; Recording Abnormal; Abnormal found in smart of disk; Abnormal temperature of the disk; Hot-spare Exception; Array Exception; Voltage Alarm(IPC); RTC Failure

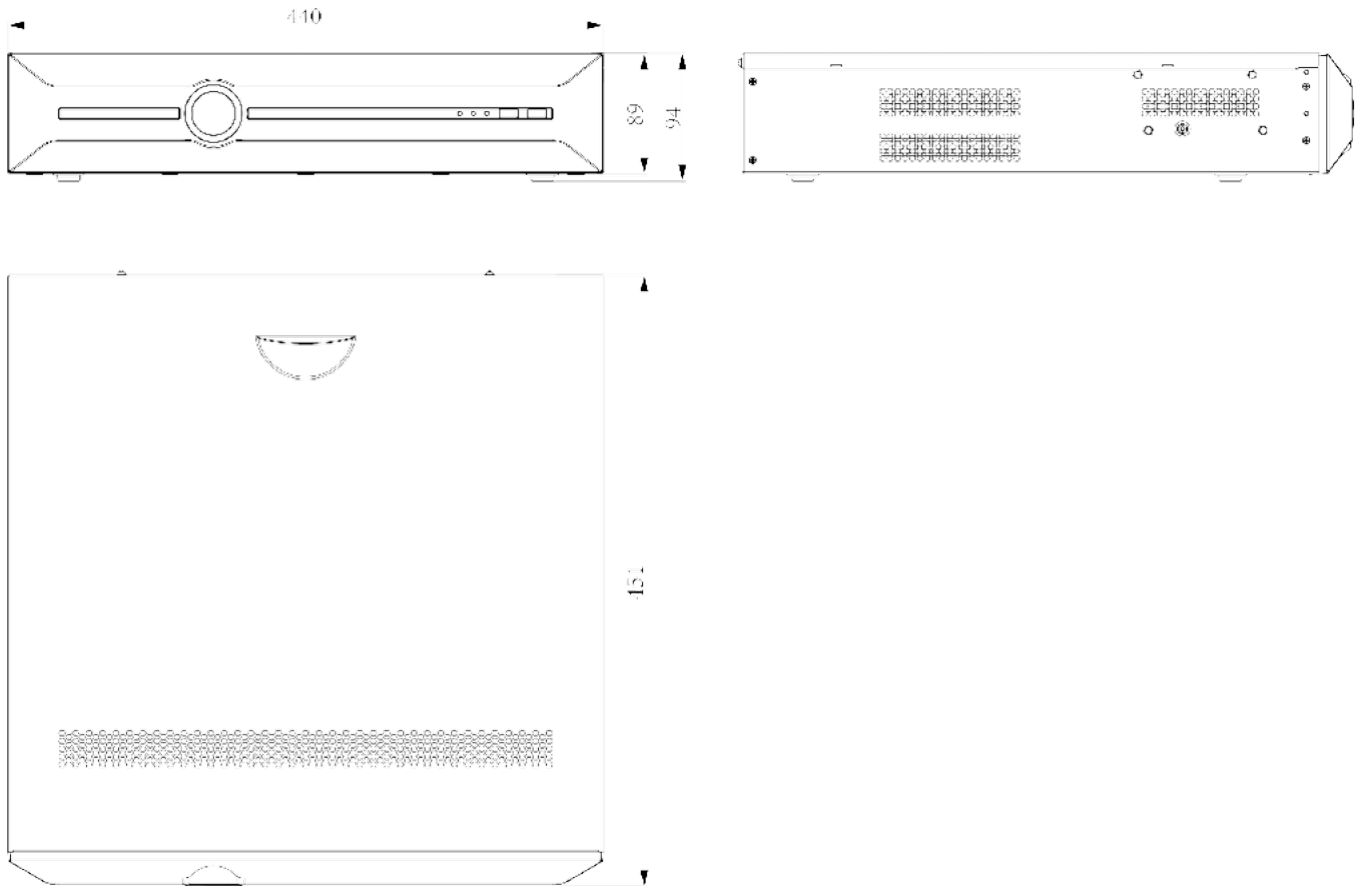


Face Detection	
Face Attributes	Gender; Age; Glasses; Face Mask; Beard; Body Temp.
General	
Web Client Language	Simple Chinese; Traditional Chinese; English; Spanish; Korean; Italian; Turkish; Russian; Thai; French; Polish; Dutch; Hebrew; Arabic; Vietnamese; German; Ukrainian; Portuguese; Albanian
Operating Temperature	-10°C~+55°C (+14°F~+131°F)
Operating Humidity	10%~90%RH (non-condensing)
Storage Temperature	-20°C~+60°C (-4°F~+140°F)
Power Consumption	<10W (HDD not included, idling)
Power Supply	100~240V AC
Boundary Dimensions	440(L)451(W)94(H)mm
Package Dimensions	565(L)565(W)220(H)mm
Package Kit	Network Video Recorder; Screw Pack; Mouse; European Standard Power Cord; 2×Ear Plate; 8×SATA Hard Disk Data Cable
Net Weight	7.3Kg
Gross Weight	9.45Kg

Design and specifications are subject to change for product improvements without prior notice



DIMENSIONS (Unit: mm)



Physical Interfaces

